CLAIMS

Sub a2

1. An apparatus for processing a plurality of data streams comprising:

at least one data modification circuit configured to generate a first output data stream in response to a first one or more of said data streams; and

a composite circuit configured to generate a combined output data stream in response to said first output data stream and remaining data streams.

2. The apparatus according to claim 1, wherein said apparatus comprises a block modify and move engine.

3. The apparatus according to claim 1, wherein said apparatus further comprises:

a data modification circuit for each of said data streams.

4. The apparatus according to claim 1, wherein said data modification circuit is configured to permit conversion between video data and graphics data.

5. The apparatus according to claim 1, wherein said data streams comprise video and graphics data streams.

6. The apparatus according to claim 1, wherein said apparatus is configured to perform conversion of one or more video data formats to graphics data.

7. The apparatus according to claim 1, wherein said apparatus is configured to perform interleaving of color components in said data streams.

8. The apparatus according to claim 1, wherein said apparatus is configured to perform separation of color components in said data stream.

9. The apparatus according to claim 1, wherein said apparatus is configured to perform scaling.

10. The apparatus according to claim 1, wherein said apparatus is configured to perform filtering.

11. The apparatus according to claim 1, wherein said apparatus is configured to perform bitwise logical operations on said data streams.

12. The apparatus according to claim 1, wherein said apparatus is configured to perform alpha blending on said data streams.

13. A method for processing a plurality of data streams comprising the steps of:

(A) modifying a first one or more of said data streams to provide a first output data stream; and

(B) combining said first output data stream and remaining data streams to generate a combined output data stream from said data streams.

14. The method according to claim 13, wherein step (A) further comprises:

converting data between video data and graphics data.

15. The method according to claim 13, wherein said data streams includes video and graphics data streams.

16. The method according to claim 13, wherein step (A) further comprises:

interleaving of color components in said data streams.

17. The method according to claim 13, wherein step (A) further comprises:

separating of color components in said data streams.

18. The method according to claim 13, wherein step (A) comprises scaling and filtering video data.

19. The method according to claim 13, wherein step (B) further comprises:

performing bitwise logical operations on said data streams.

20. The method according to claim 13, wherein step (B) further comprises:

performing alpha blending on said data streams.